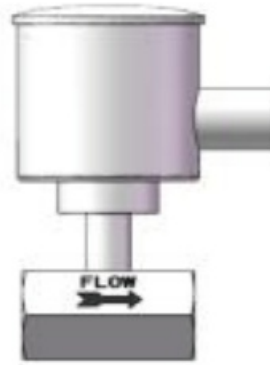


IN-LINE BAFFLE SWITCH, STAINLESS ENCLOSURE



- ALL STAINLESS · 100 BAR · 250 °C MEDIUM · IP67
- FOUR BORES DN20 TO DN40 · TWO BAFFLES A AND B PER BORE
- SPDT 250 VAC, 3 A · PRESSURE LOSS 0.08 BAR

KEY DATA

Property	Value	Property	Value
Setting range	4.2 ... 18 up to 25 ... 111 L/min, fixed by the model	Repeatability	± 2.5 % of the total range
Output	Microswitch, normally open and closed	Switching capacity	250 Vac, 3 A
Pressure range	100 bar	Pressure loss	0.08 bar at maximum flow
Medium temperature	250 °C	Process connection	R3/4 to R1½ taper thread, both ends
Hysteresis	2 ... 7 L/min, by model	Protection grade	IP67

A spring-loaded baffle sits in the through bore; the flow deflects it and a linkage operates a microswitch in the enclosure. The range is fixed by the model.



MEASUREMENT

Measuring principle	Mechanical — a spring-loaded baffle inside the through bore; the flow deflects it and a linkage operates a microswitch in the enclosure above
Setting range	Fixed by the model, from 4.2 ... 18 L/min at DN20 with baffle A to 25 ... 111 L/min at DN40 with baffle B
Setting	By a knob on the switch, within the range of the model chosen
Repeatability	± 2.5 % of the total range
Hysteresis	2 ... 7 L/min, by model
Reference	The figures are measured with the switch mounted vertically in a horizontal line, with water at 20 °C
Media	Liquid and gaseous. Industrial automation, machinery, air compression, cooling and air conditioning, fire protection and petrochemicals

MATERIALS AND PROCESS

Body	Stainless steel · process connection, connecting rod and baffle all stainless steel
Enclosure	Stainless steel junction box
Thread	R3/4, R1, R1¼ or R1½ taper thread, the same at both ends
Pressure range	100 bar
Pressure loss	0.08 bar at maximum flow
Medium temperature	250 °C
Protection grade	IP67

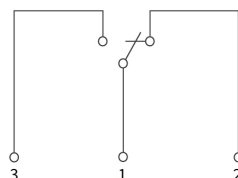
ELECTRICAL PROPERTIES

Output	One microswitch — normally open and normally closed together
Switching capacity	250 Vac, 3 A
Connection	Screw terminals inside the enclosure, numbered 3, 1 and 2
Isolation	The mechanical and the electrical part are completely separated

SETTING AND MOUNTING

Setting	By a knob, within the range of the model chosen
Ordering	State the flow direction, the medium, the pipe bore and the wanted switching value with the order; the switch can be set before delivery
Mounting	Four positions are shown: horizontal line with the head up or down, vertical line with the flow rising or falling

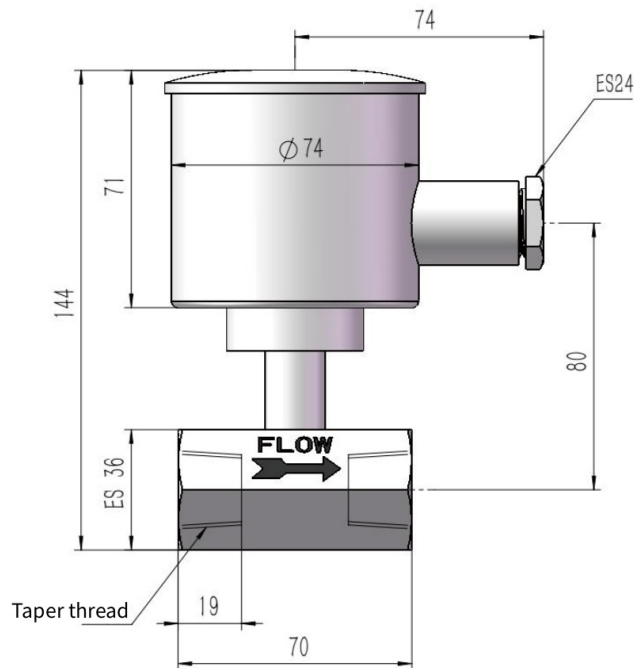
WIRING



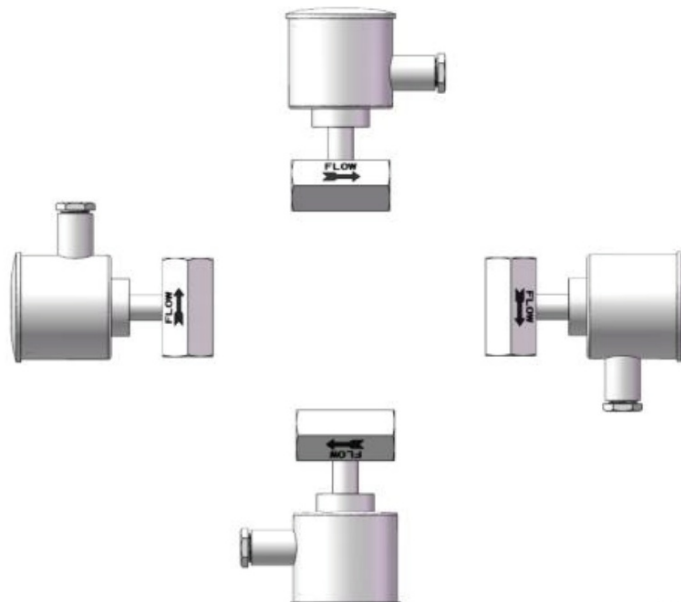
The changeover contact: a common terminal, a break contact and a make contact.



DIMENSIONS (mm)



The round enclosure sits above the through body on a neck; the cable entry leaves it sideways, and the arrow on the body marks the flow direction.



The four mounting positions: horizontal line with the head up or down, vertical line with the flow rising or falling.



OVERALL DIMENSIONS (mm)

Feature	mm	Note
Enclosure diameter	Ø74	The round stainless housing
Enclosure height	71	Without the neck and the body
Overall height	144	From the body to the top of the lid
Cable entry height	80	Centre of the entry above the body
Across flats, entry	24	Marked ES24 on the drawing
Across flats, body	30	Marked ES30 on the drawing
Body height	19	The through body itself
Body length	70	Across both process connections



COMPLIANCE AND CERTIFICATION

Measuring principle	Mechanical, spring-loaded baffle and microswitch
Repeatability	± 2.5 % of the total range
Hysteresis	2 ... 7 L/min, by model
Protection grade	IP67
Pressure rating	100 bar
Wetted materials	Body, process connection, connecting rod and baffle all stainless steel
Medium temperature	250 °C
Contact rating	250 Vac, 3 A

Eight models, all at 100 bar and all weighing 0.85 kg. The figures are measured with the switch mounted vertically in a horizontal line, in water at 20 °C.

MODELS, RANGES AND DIMENSIONS

DN	Taper thread	Baffle	Range L/min	Hysteresis L/min	Pressure bar
20	R3/4	A	4.2 ... 18	2	100
20	R3/4	B	8.3 ... 37	3	100
25	R1	A	5.2 ... 23	2	100
25	R1	B	10 ... 48	4	100
32	R1 1/4	A	8.1 ... 39	3	100
32	R1 1/4	B	19 ... 90	6	100
40	R1 1/2	A	15 ... 69	5	100
40	R1 1/2	B	25 ... 111	7	100

Example: QSKQ-025RKA. With the order, state the flow direction, the medium, the pipe bore and the wanted switching value; the switch can be set before delivery.

ORDER CODE

Field	Code	Meaning
1 Series	QSKQ	QSKQ in-line baffle switch in a stainless enclosure
2 Bore	020 · 025	DN20 R3/4 · DN25 R1 taper thread
	032 · 040	DN32 R1¼ · DN40 R1½ taper thread
3 Thread form	RK	R taper thread
4 Baffle	A · B	Small range · large range

